

Sediment Coring: July 2006



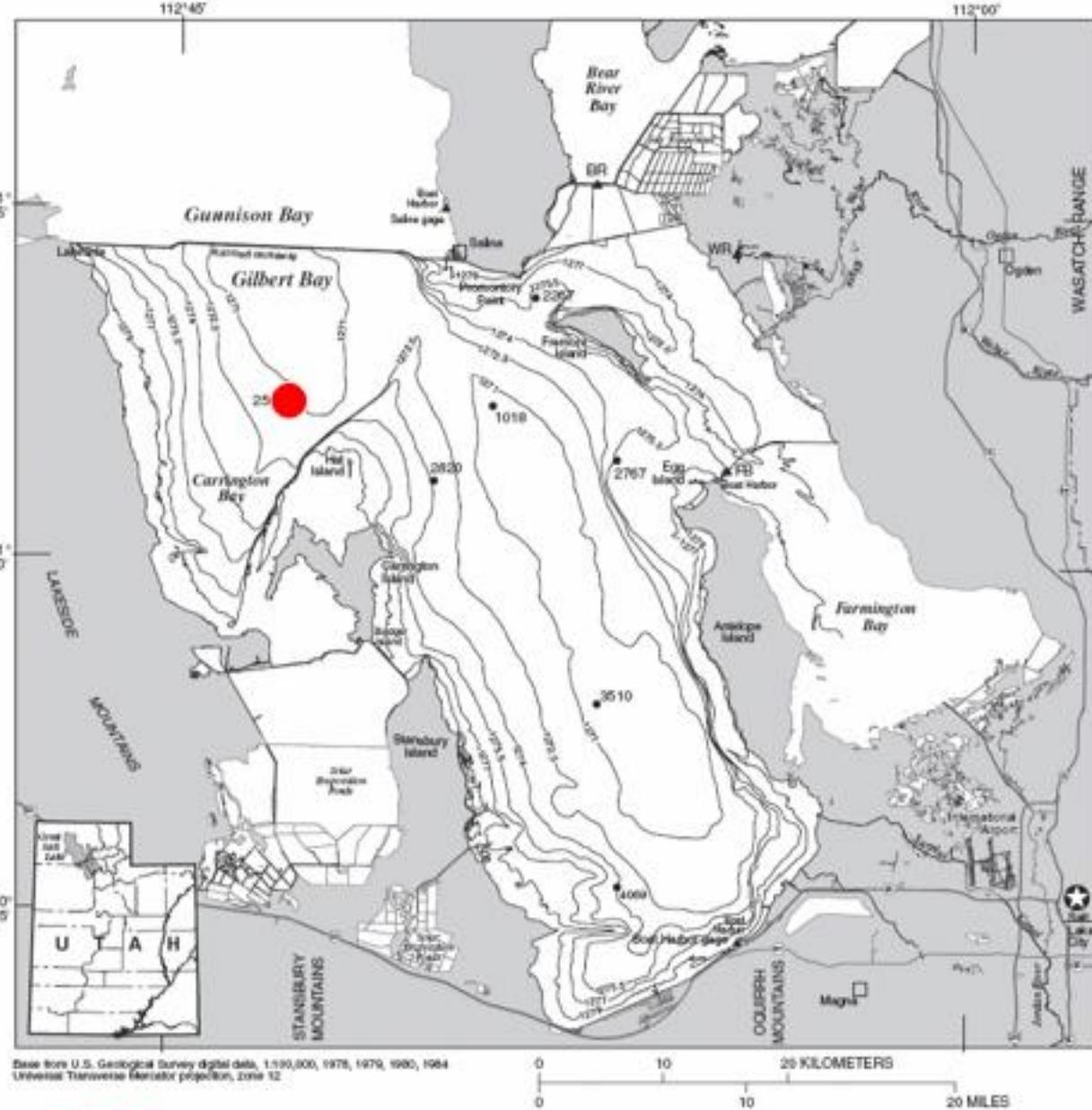
Releasing the box core



Slicing the gravity cores

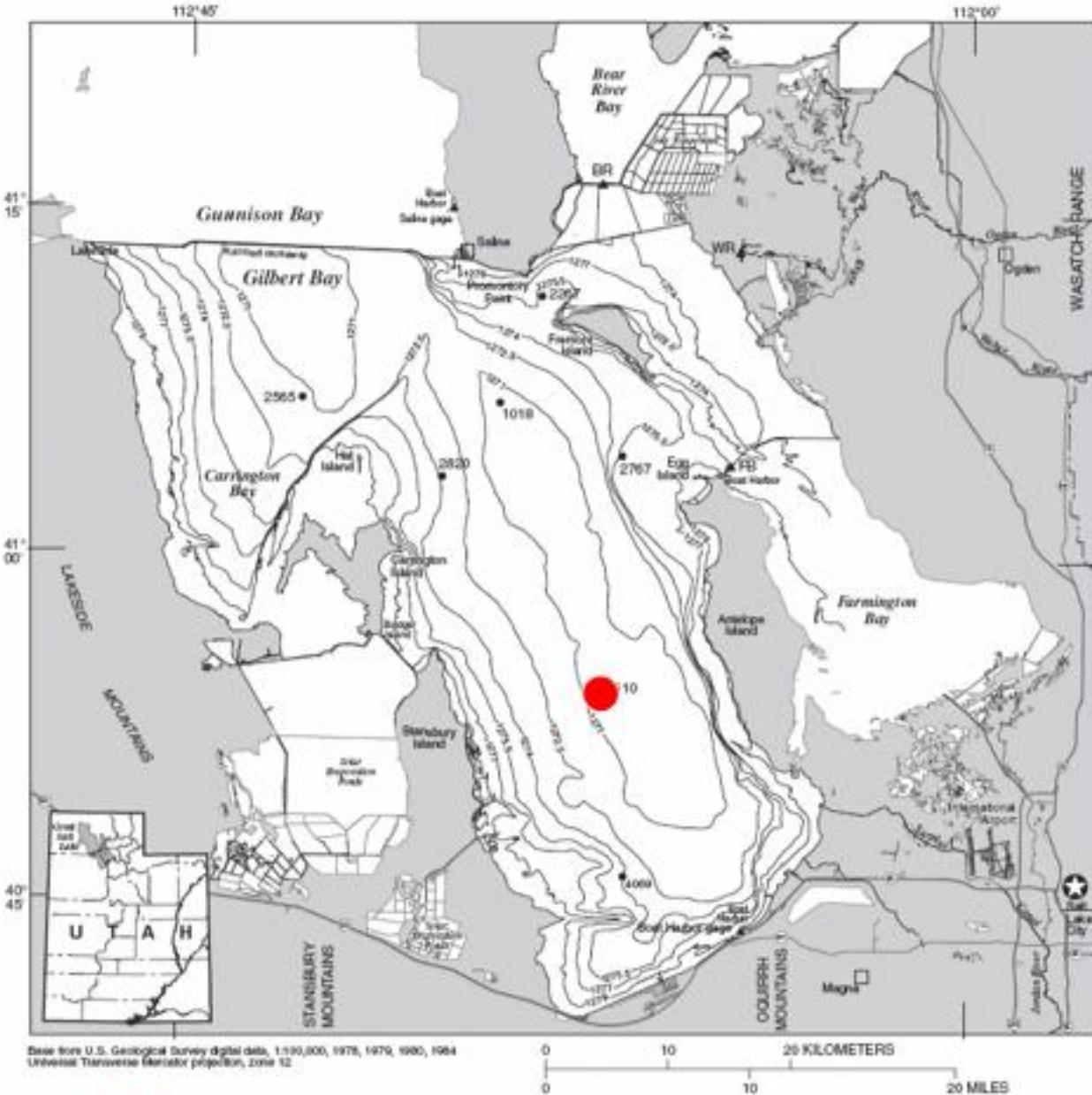
Site 2565

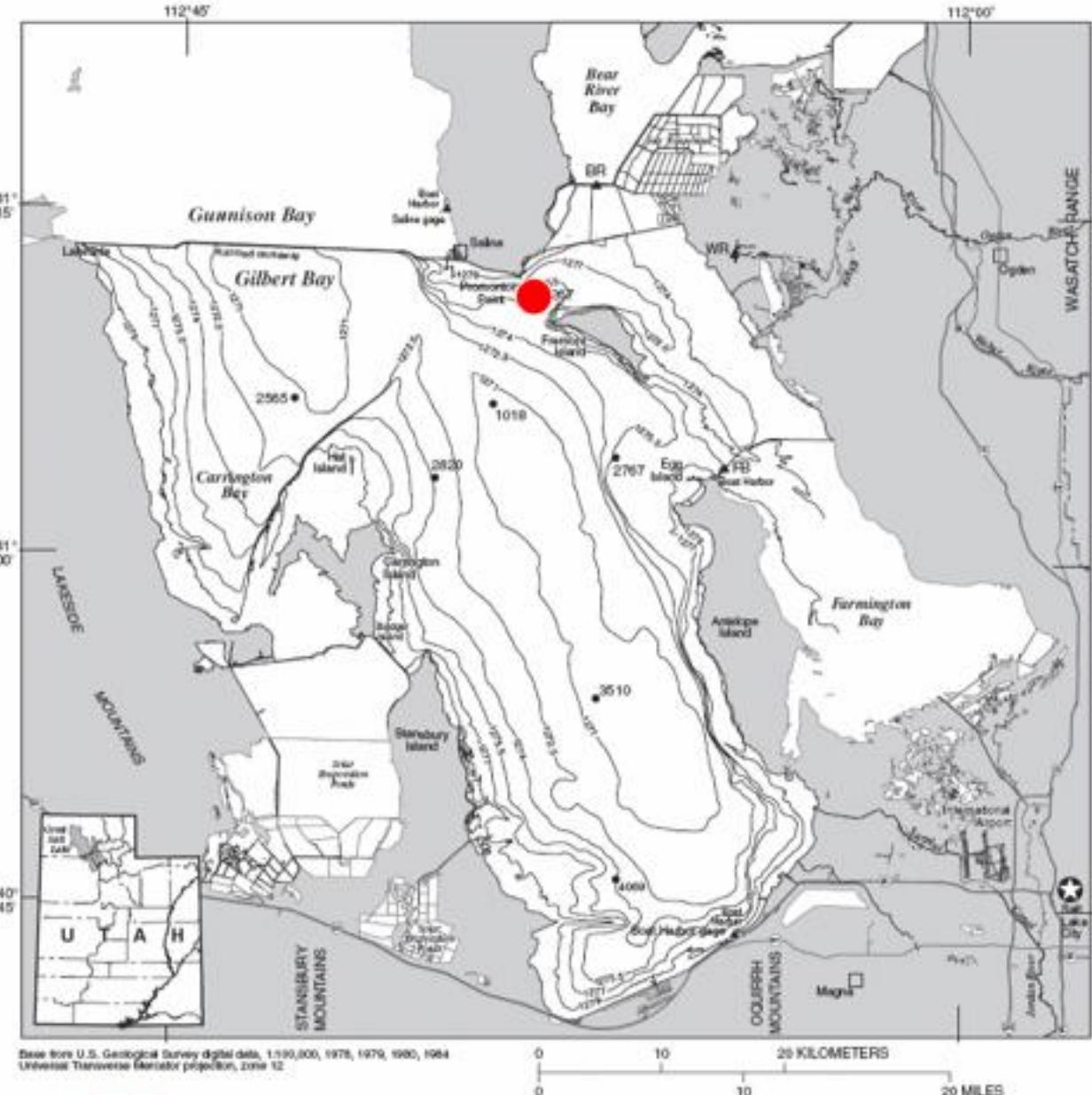
- ◆ 31-cm gravity core
- ◆ 36-cm gravity core



Site 3510

- ◆ 36-cm gravity core
- ◆ 49-cm gravity core
- ◆ 15-cm box core

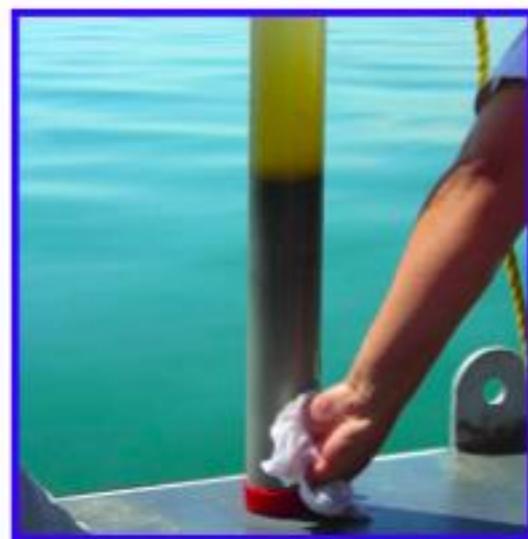




Site 2267

◆ 93-cm gravity core

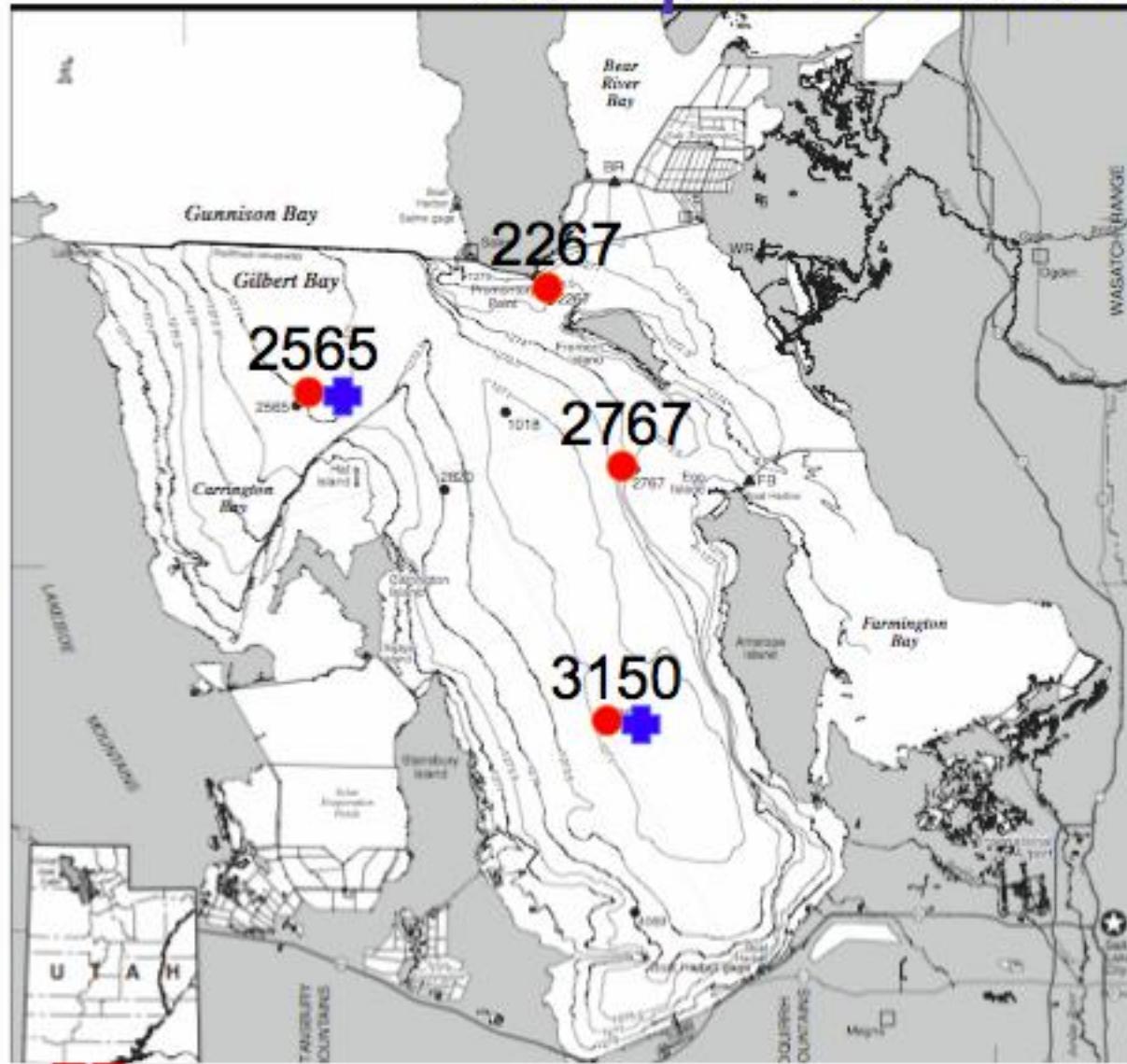
◆ 91-cm gravity core



Freeze drying of sediment cores



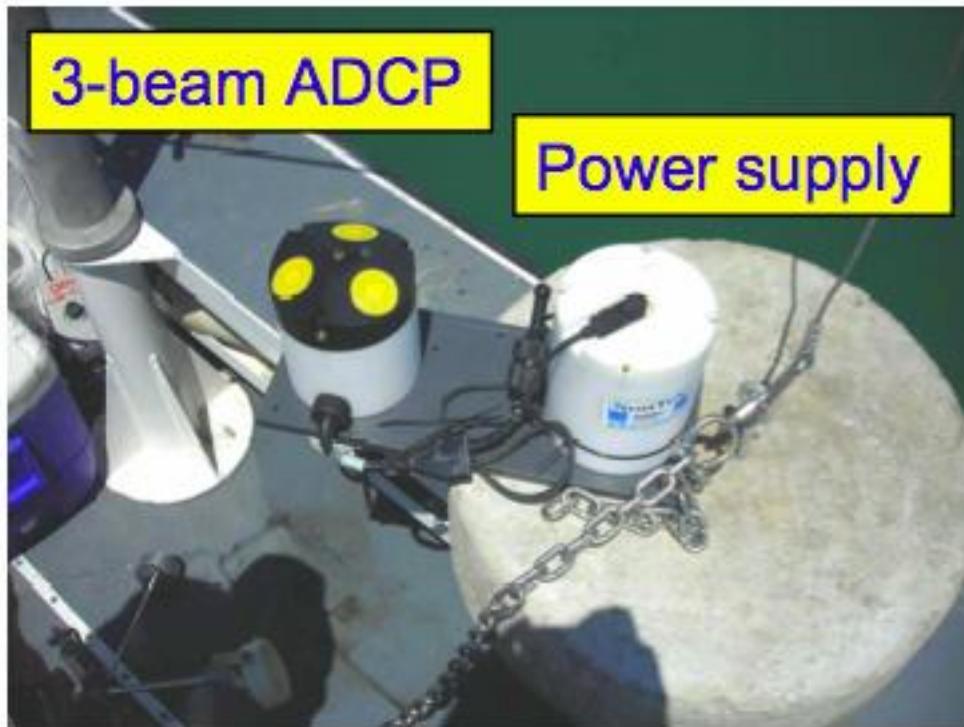
Sample Locations



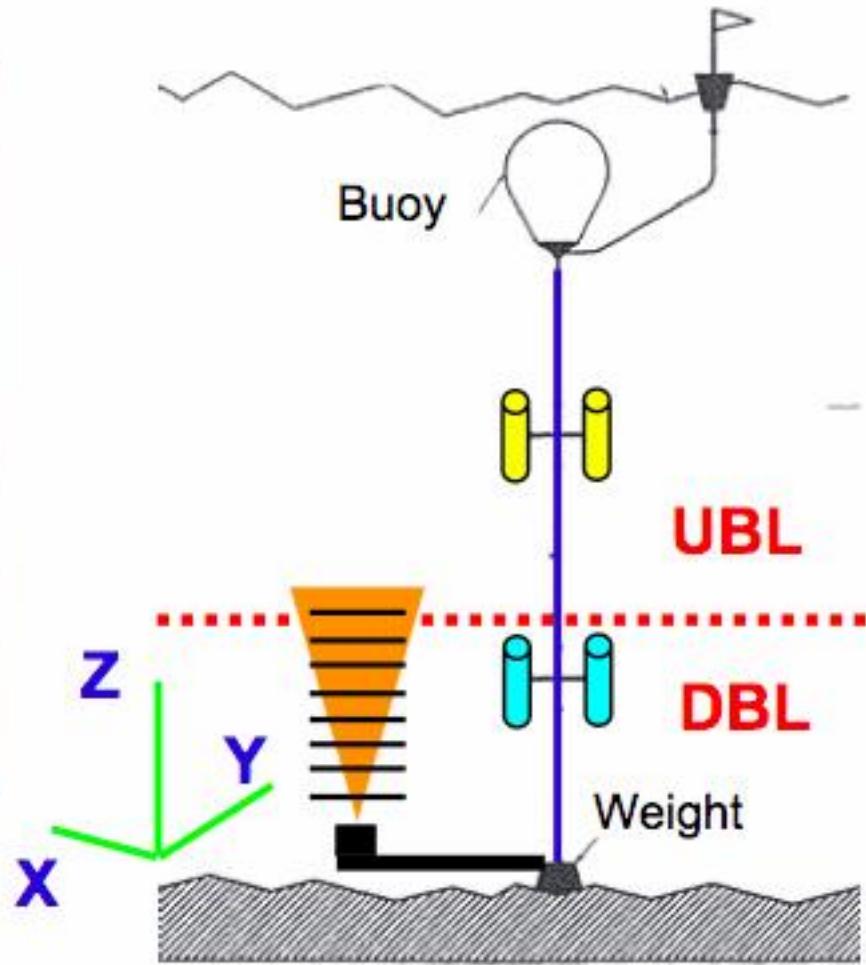
● Sediment Trap
✚ Thermistor String

SEDIMENT RESUSPENSION

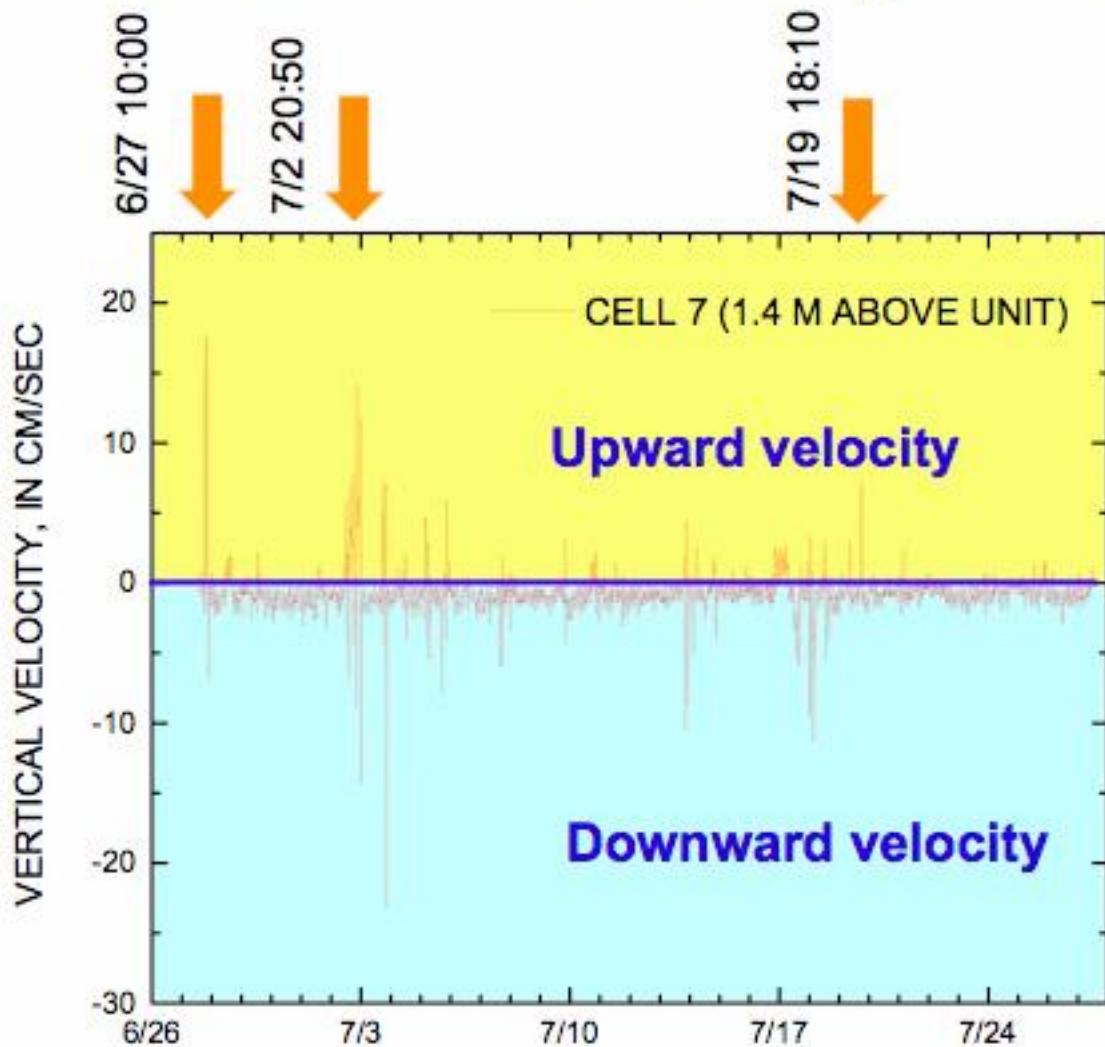
20 minute interval/10 bins



Sediment trap and ADCP installation at site 3510



Vertical velocity measurements

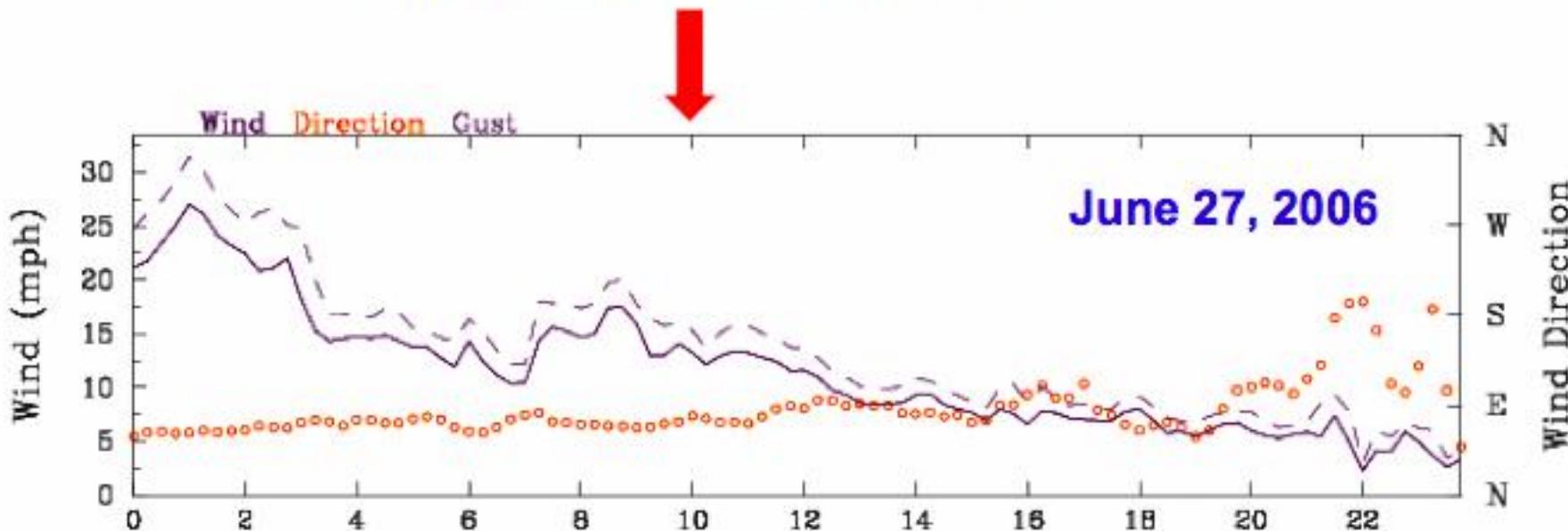


Saying good-bye to \$20K

Wind data

Hat Island weather station

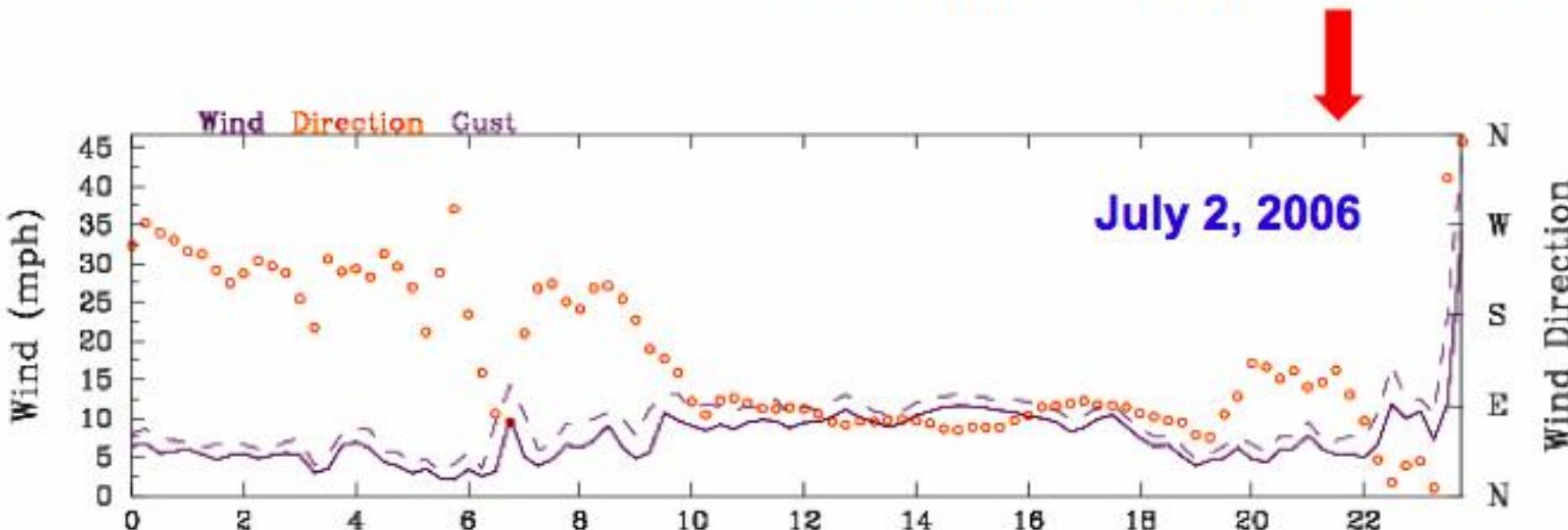
Peak upward velocity at GSL 3510



Wind data

Hat Island weather station

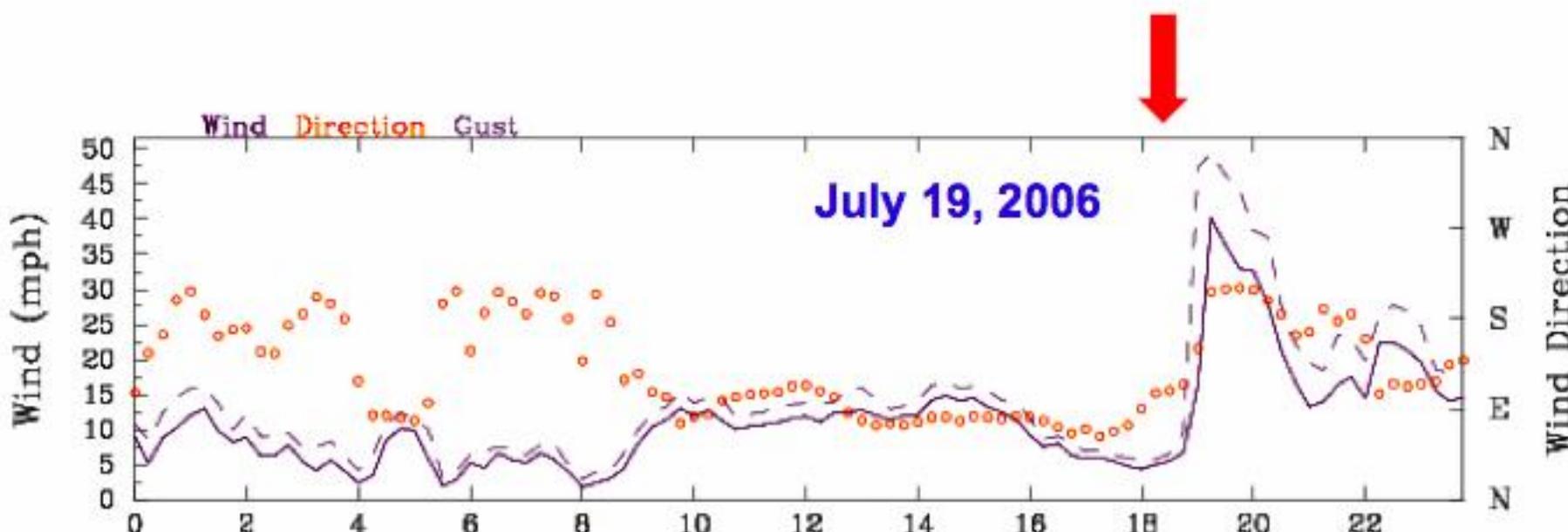
Peak upward velocity at GSL 3510



Wind data

Hat Island weather station

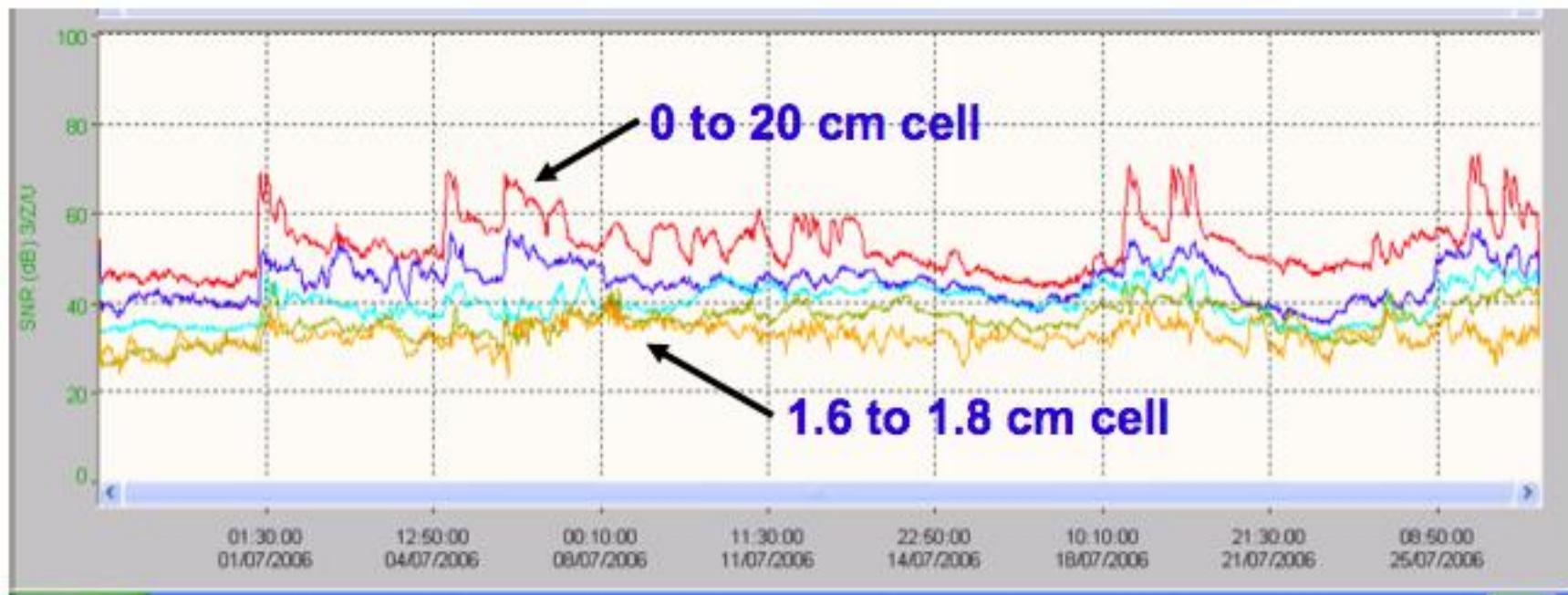
Peak upward velocity at GSL 3510



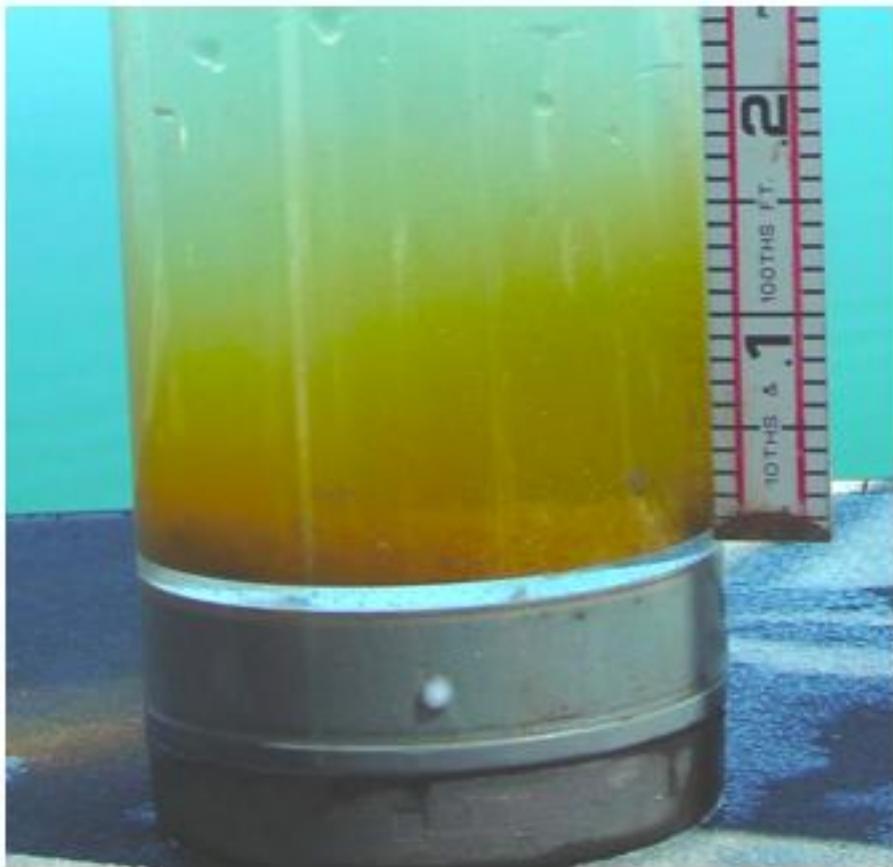


SNR: Indication of resuspension

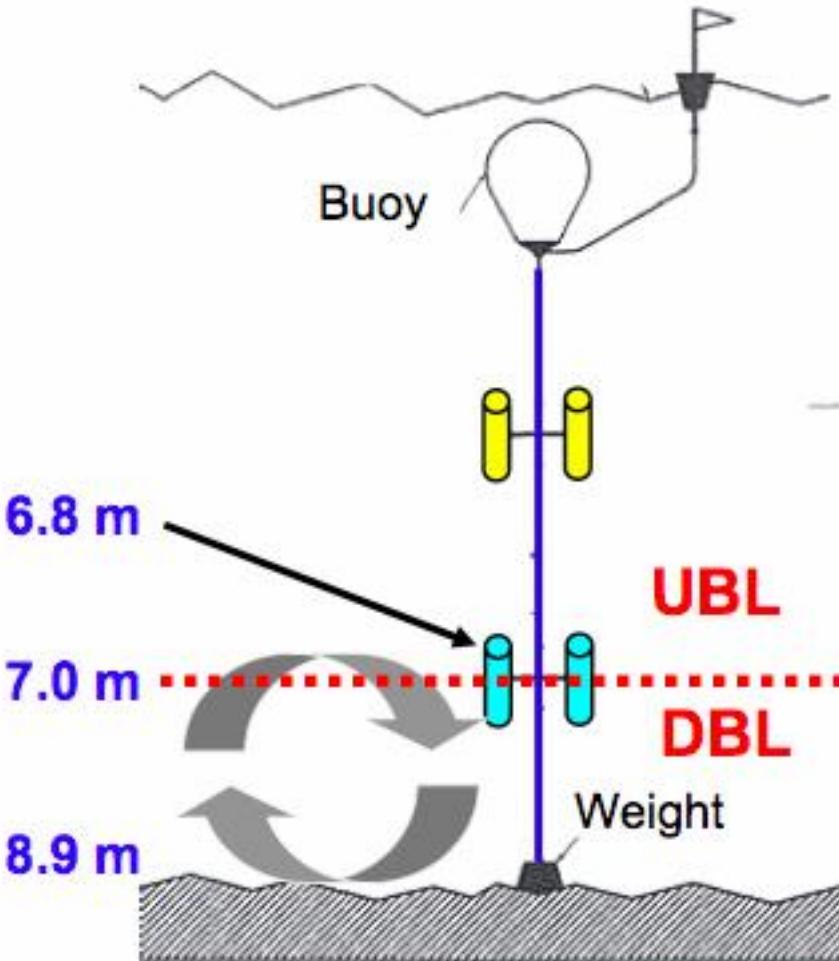
Organic surface sediment



Sediment Traps: Site 3510



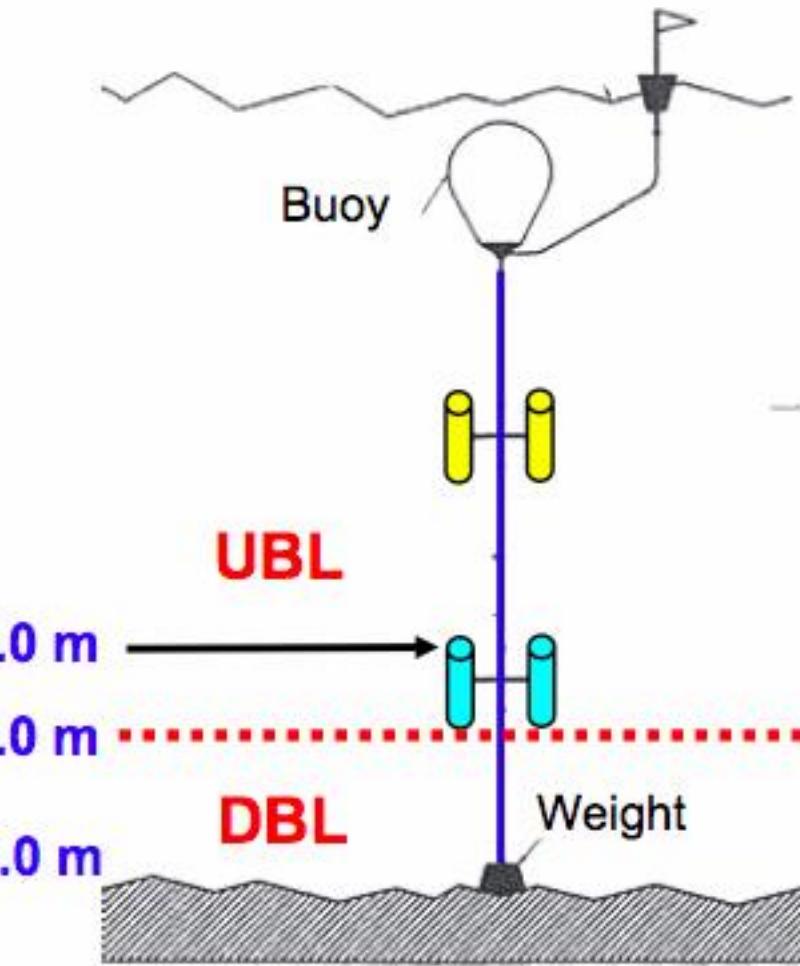
Sediment captured from 6/27 to 7/28



Sediment Traps: Site 2565



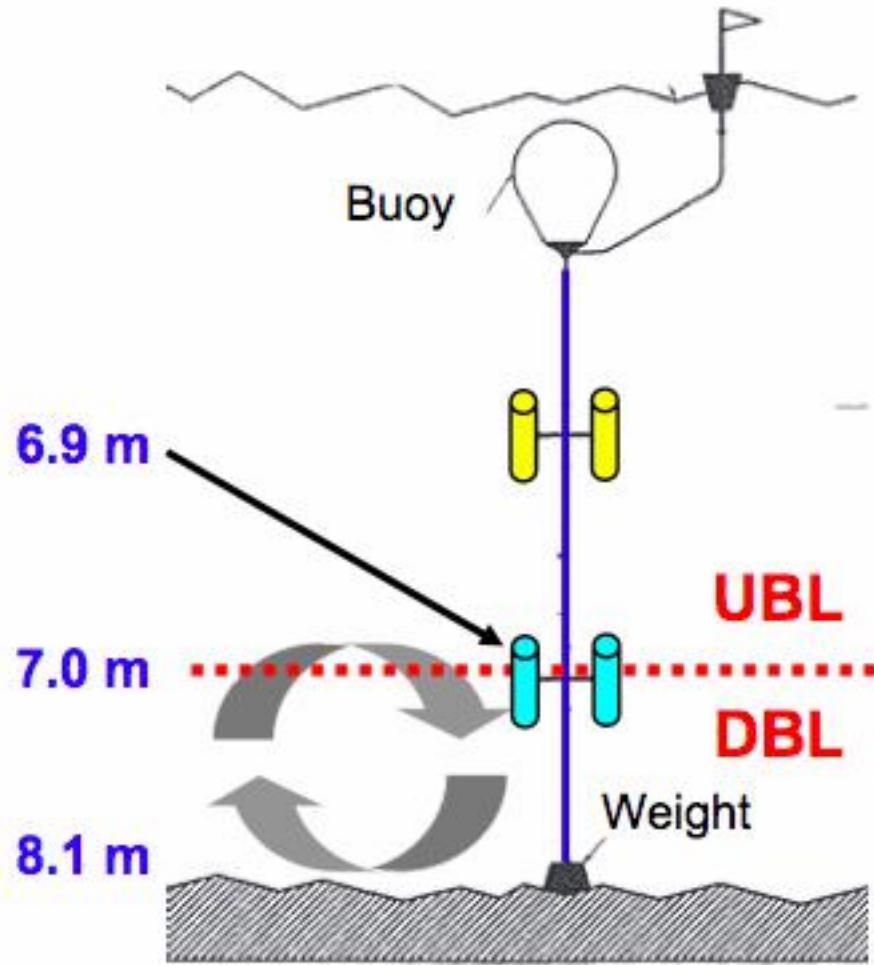
No sediment captured from 6/27 to 7/28



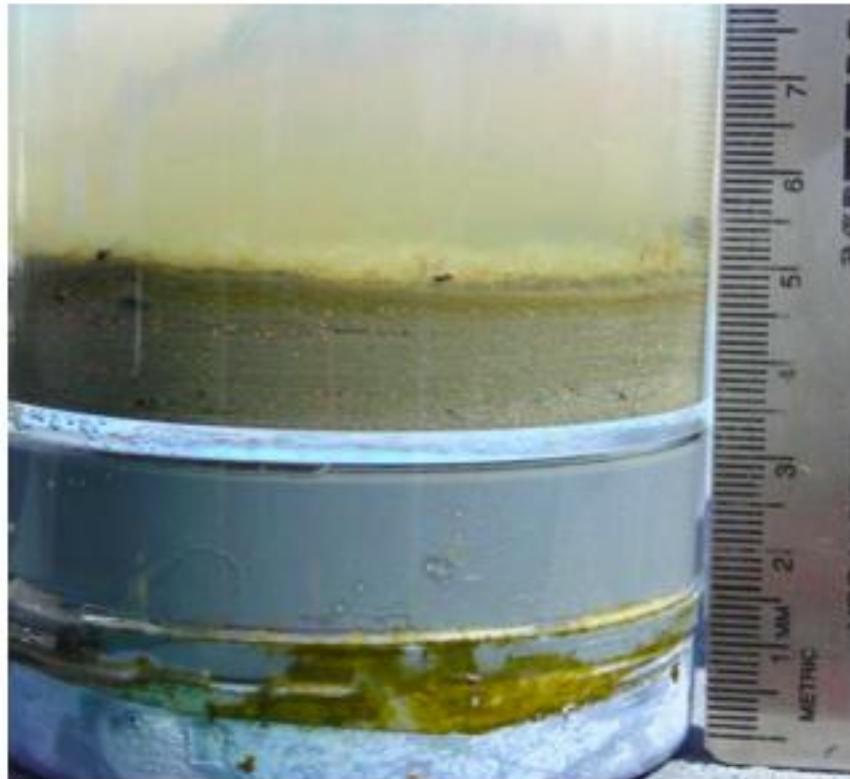
Sediment Traps: Site 2565



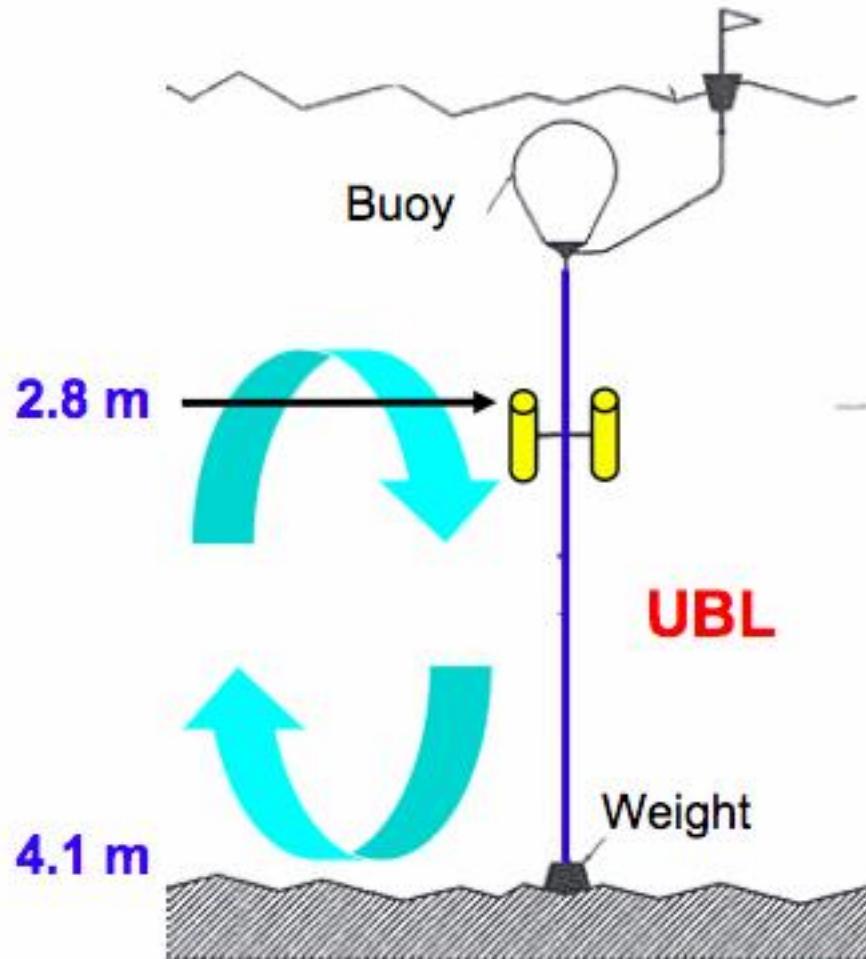
Sediment captured from 3/23 to 5/26



Sediment Traps: Site 2267



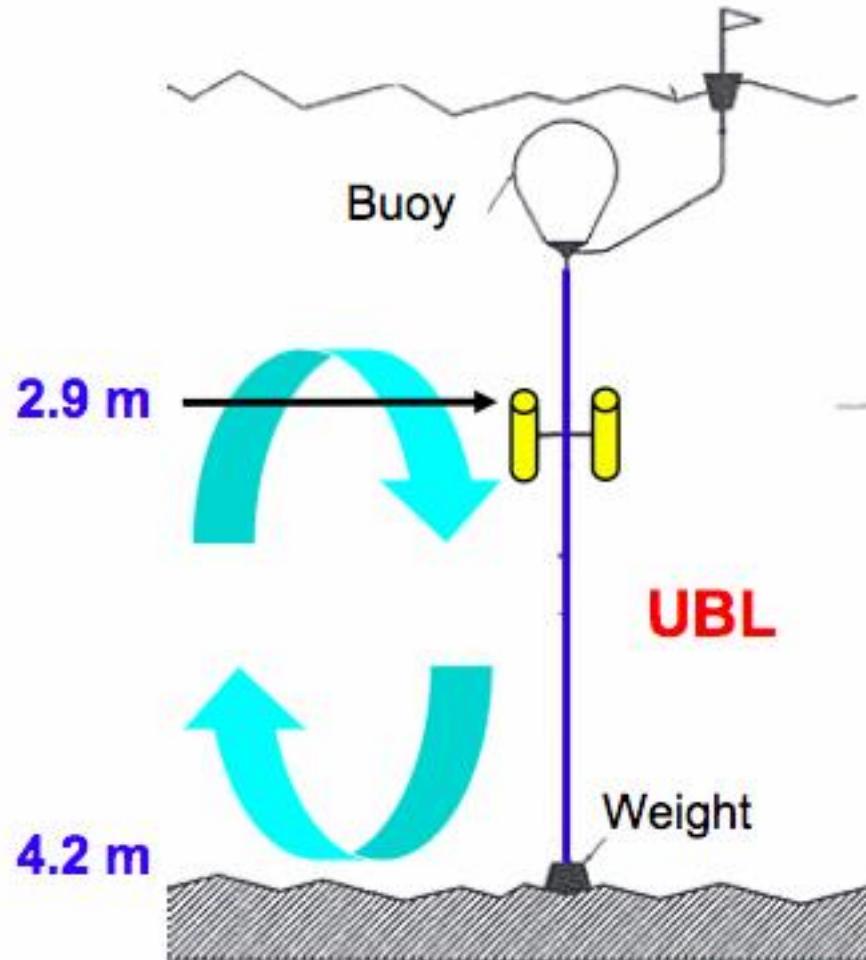
Sediment captured from 3/23 to 5/26



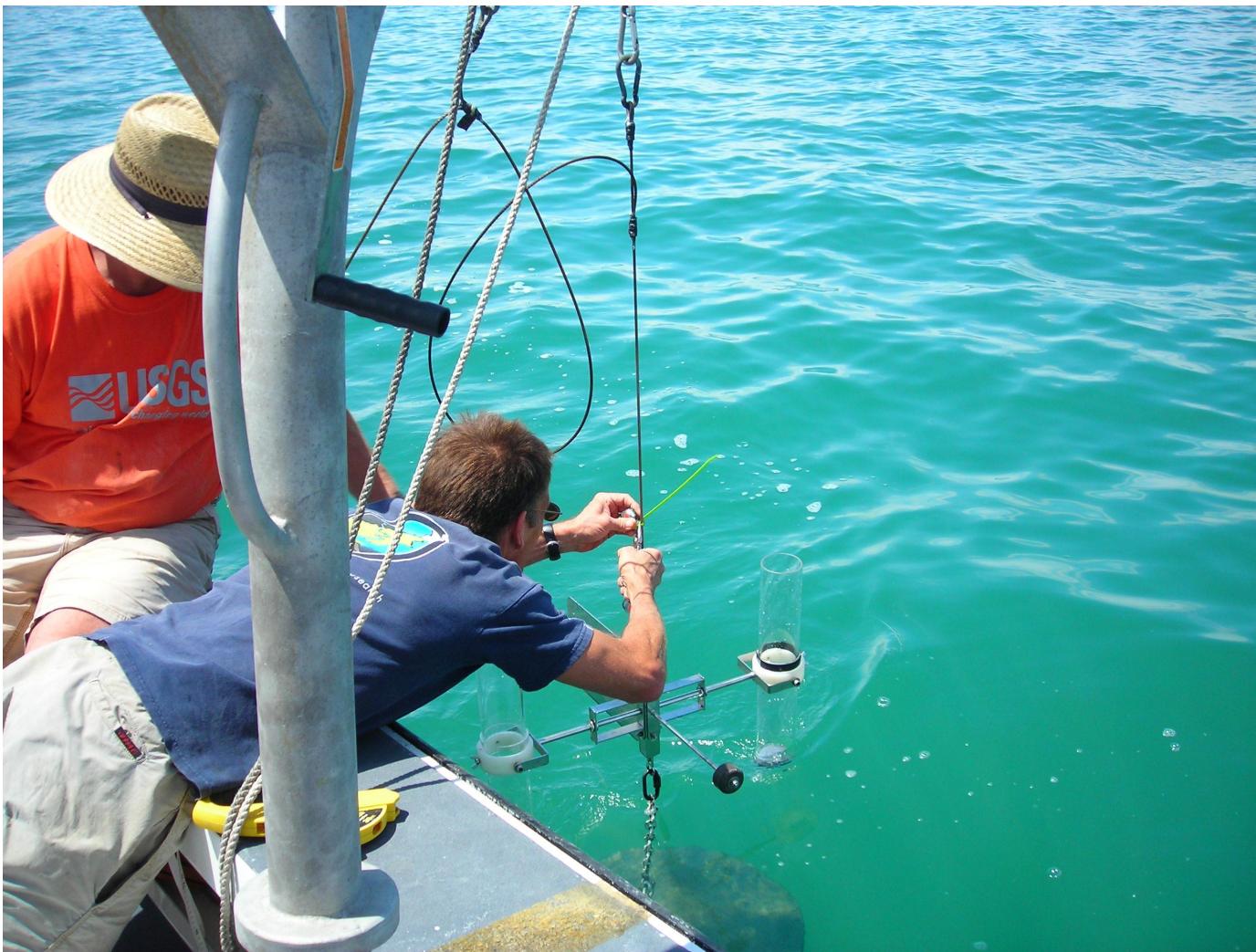
Sediment Traps: Site 2267



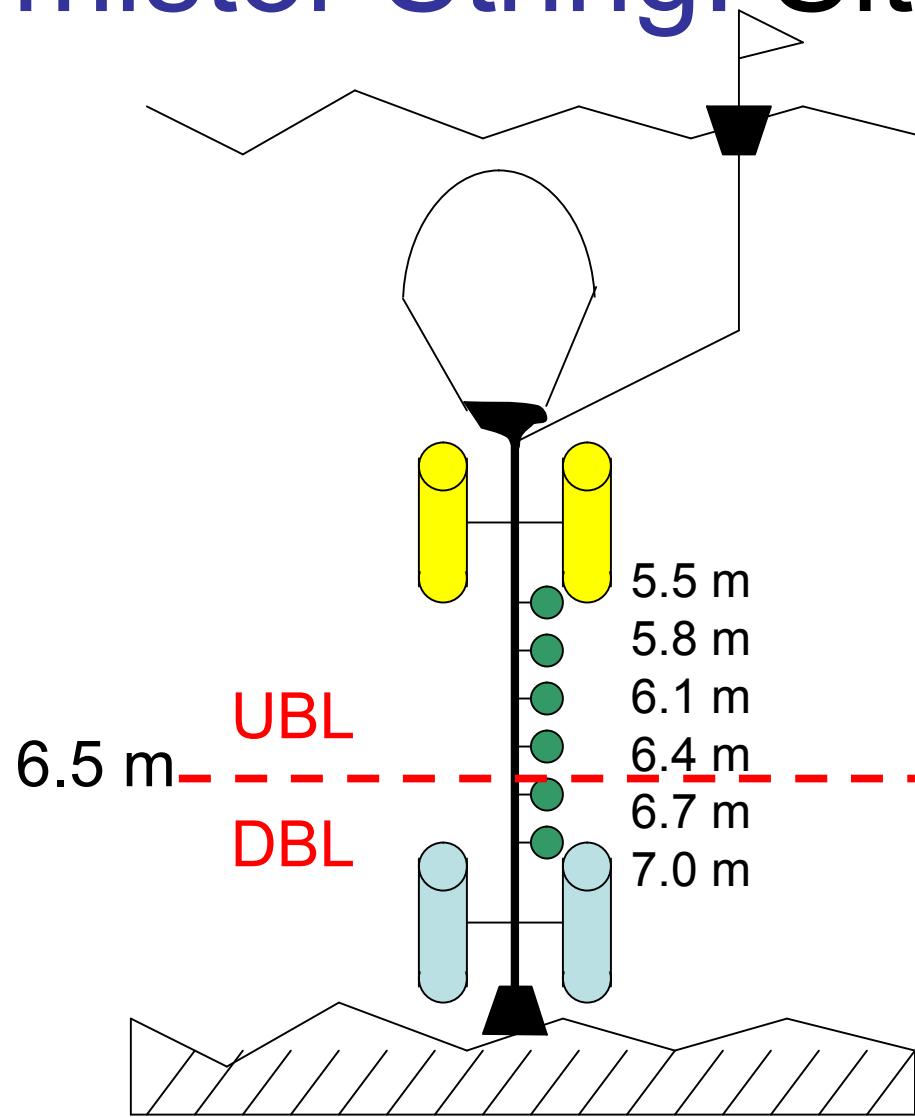
*2.7 cm of sediment captured
from 6/26 to 7/28*



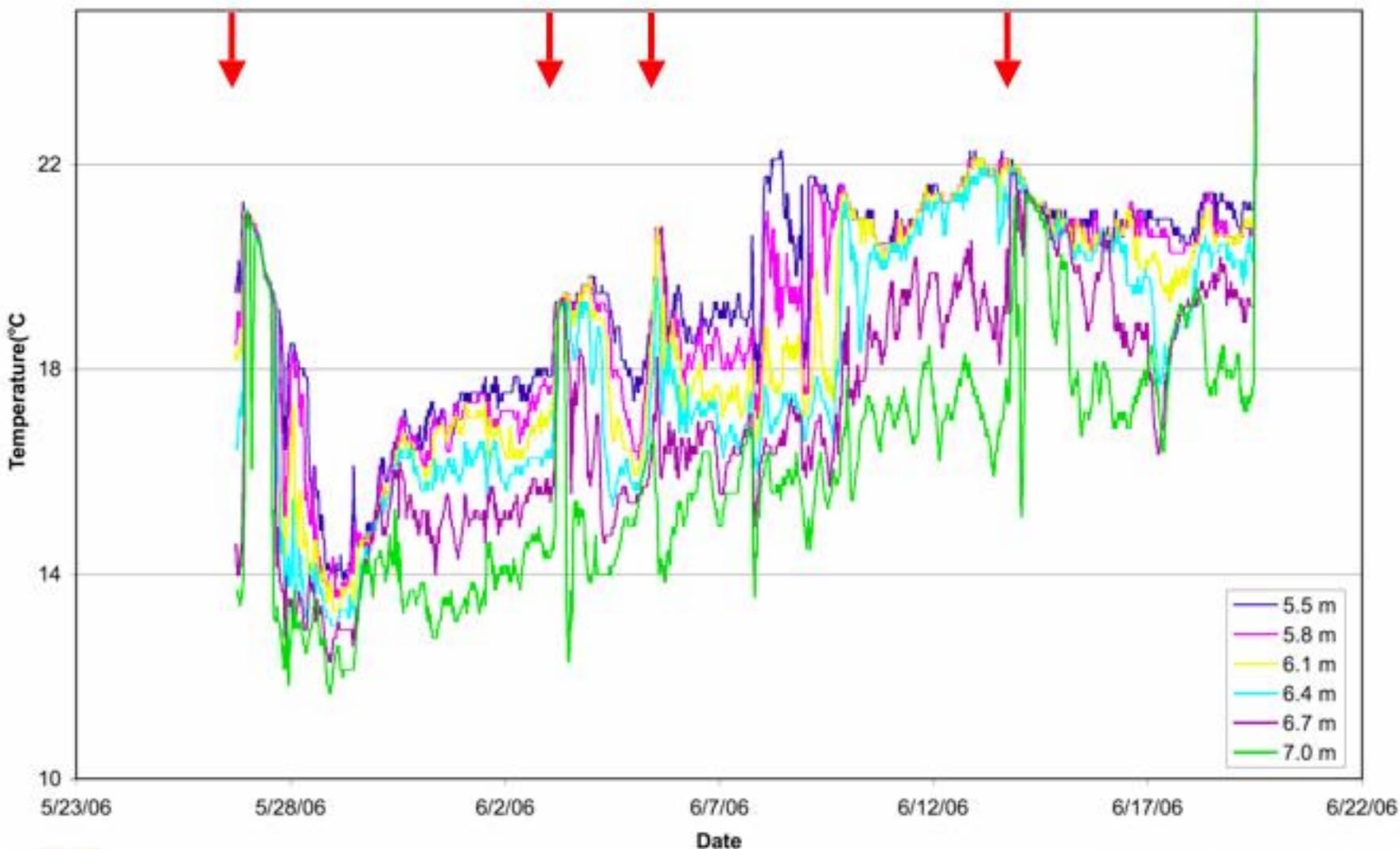
Thermistor Installation



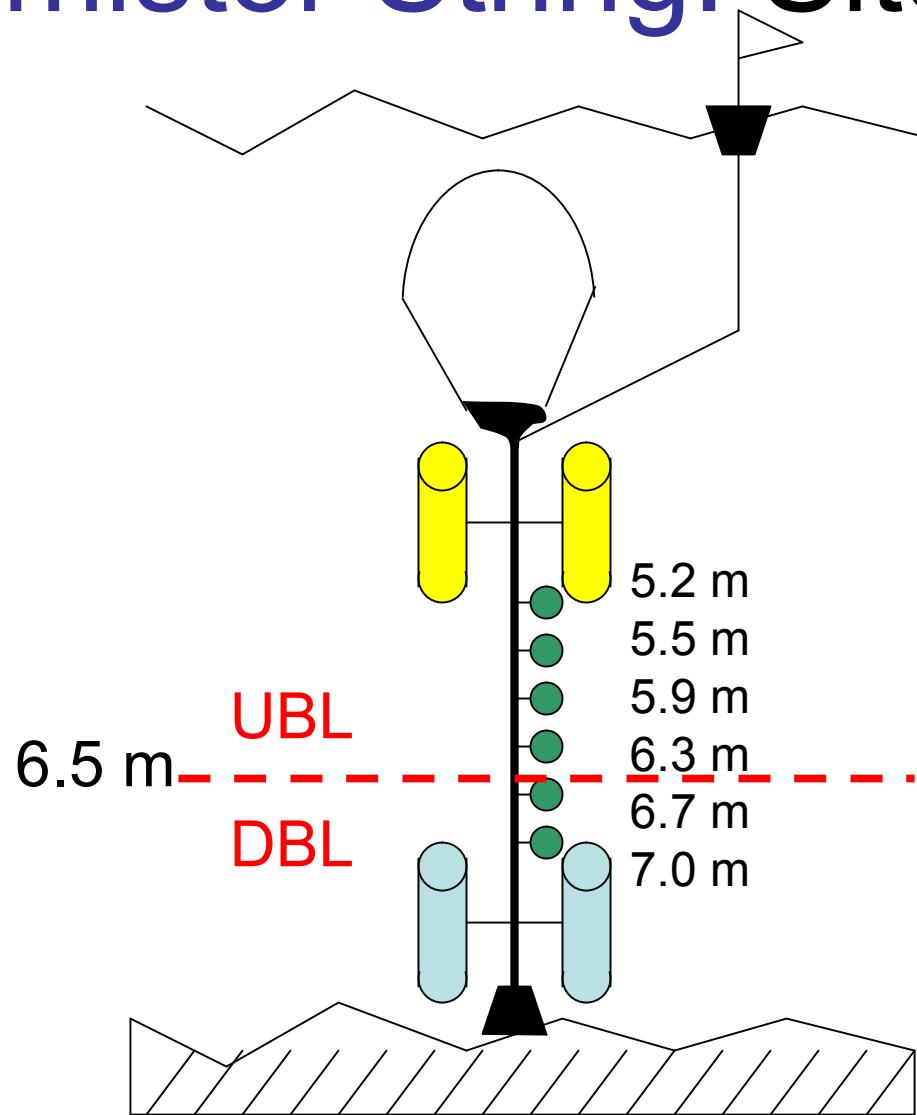
Thermistor String: Site 2565



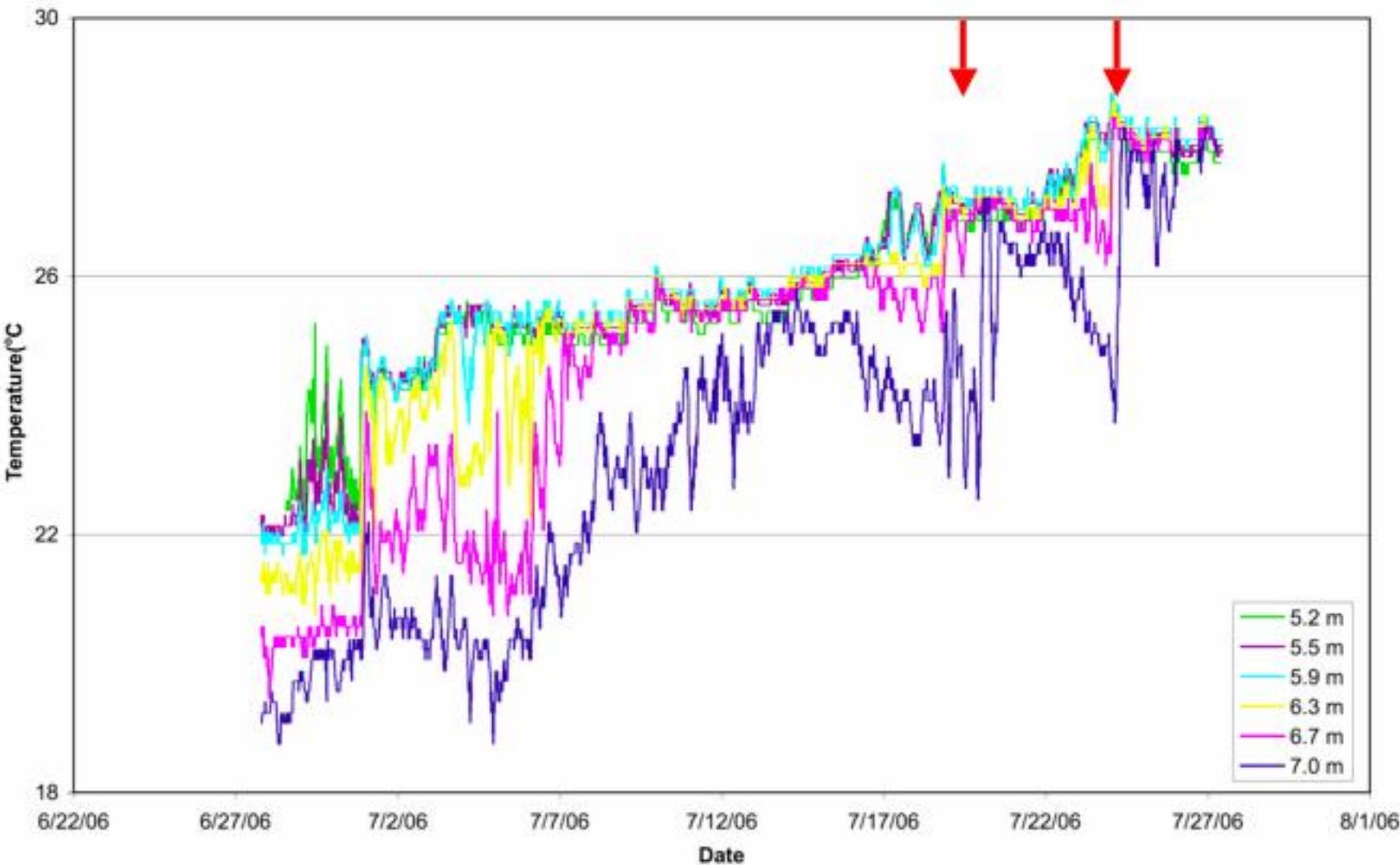
Temperature Logger Summary from Site 2565



Thermistor String: Site 3510



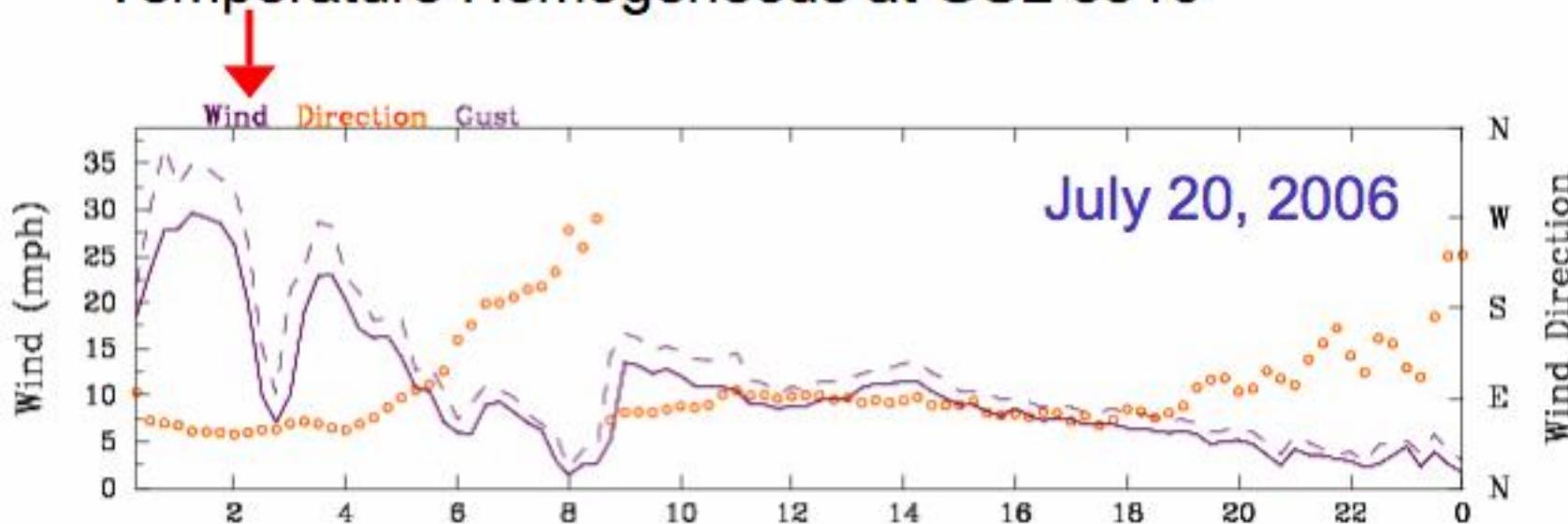
Temperature Logger Summary from Site 3150



Wind Data

Hat Island Weather Station

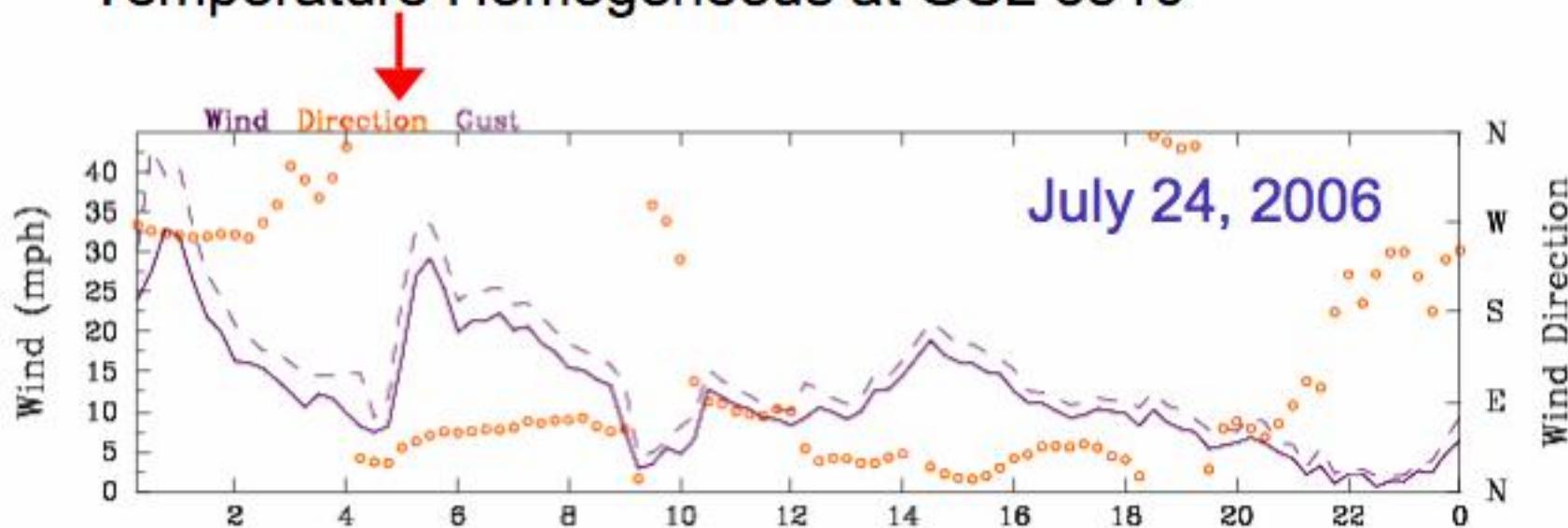
Temperature Homogeneous at GSL 3510



Wind Data

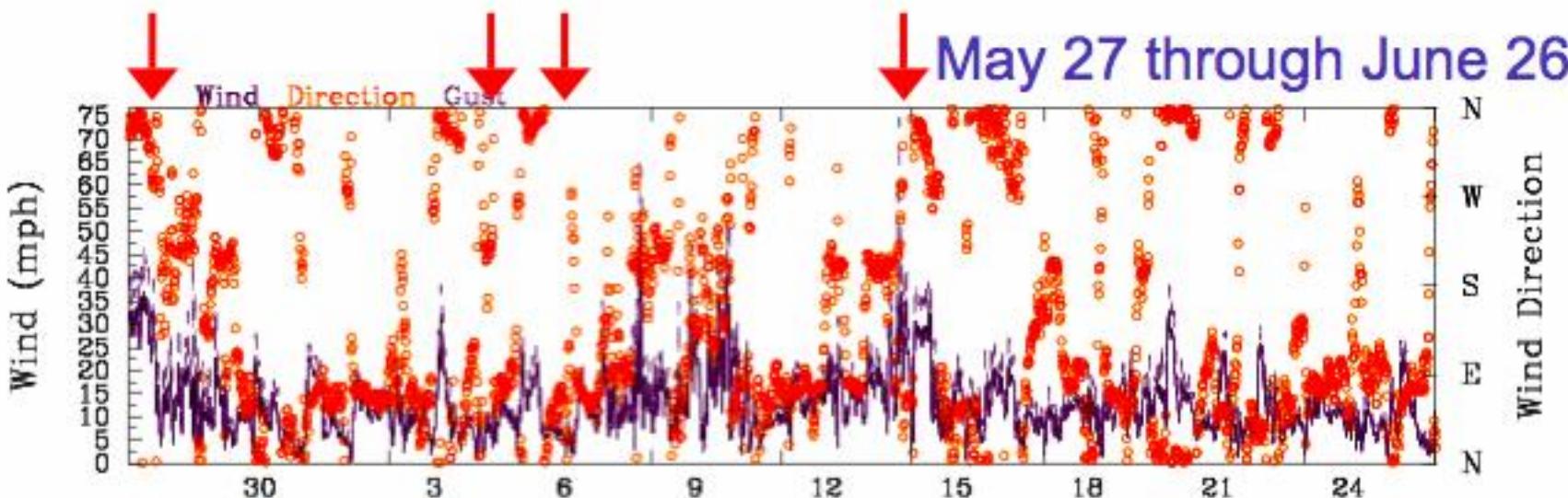
Hat Island Weather Station

Temperature Homogeneous at GSL 3510



Wind Data

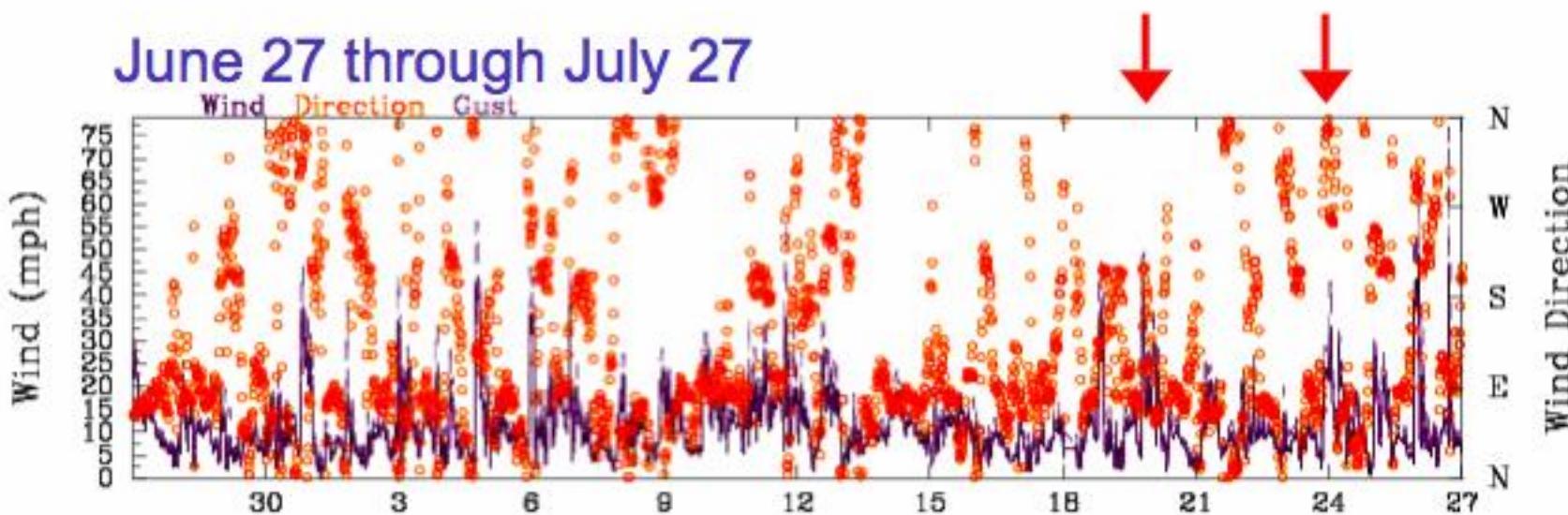
Hat Island Weather Station



Wind Data

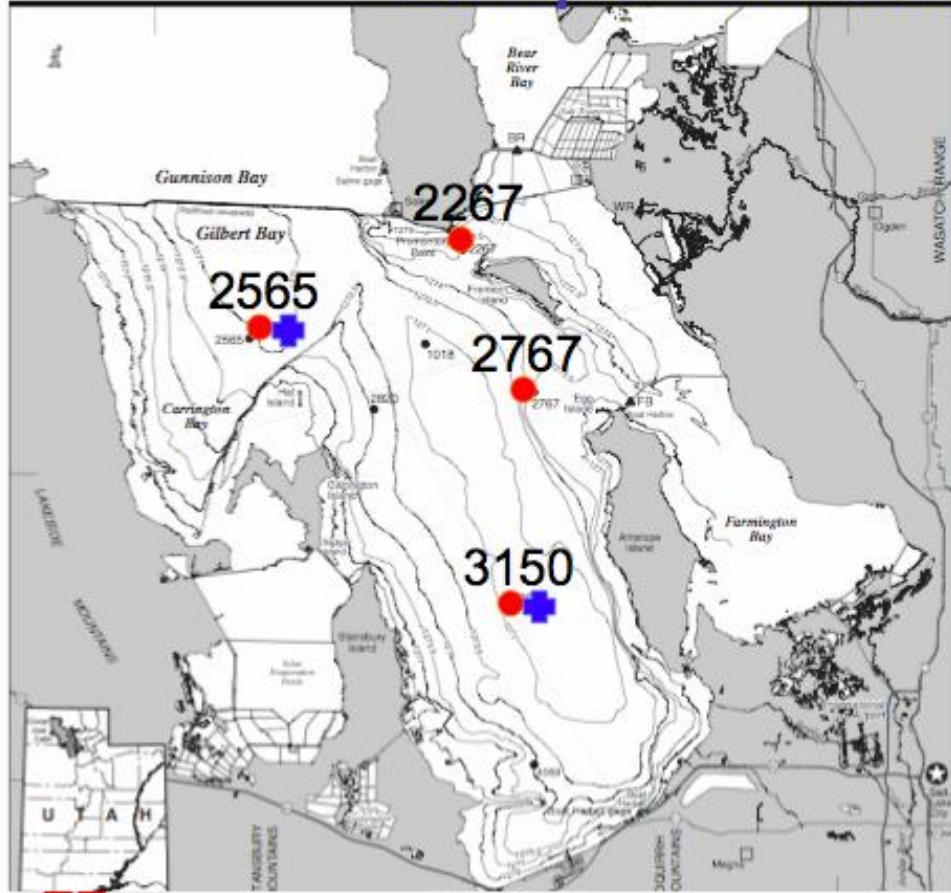
Hat Island Weather Station

June 27 through July 27



Sedimentation via Se burden on particulates

Sample Locations



Water column samples

Collected semi-monthly

Four sites – three depths

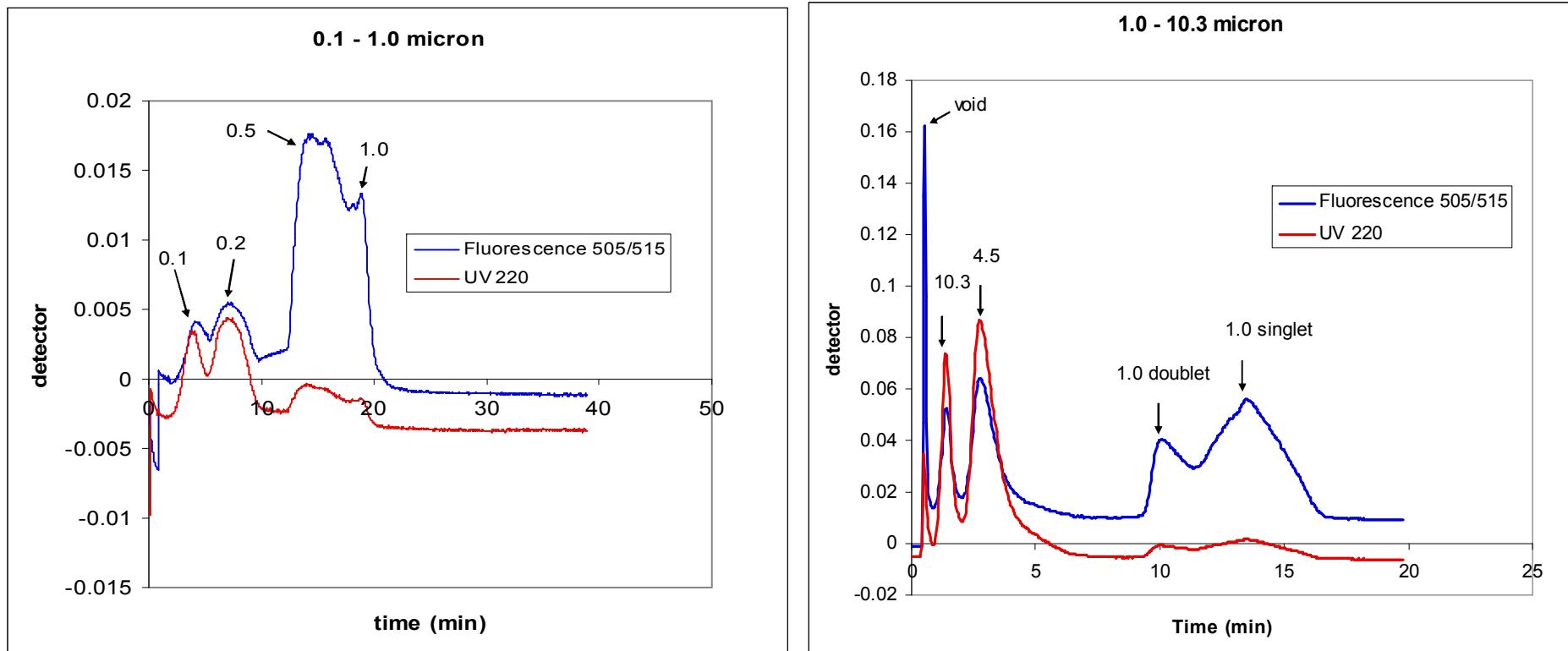
Total Se (Frontier)

FFF-ICP-MS (UU)

- Sediment Trap
- ✚ Thermistor String

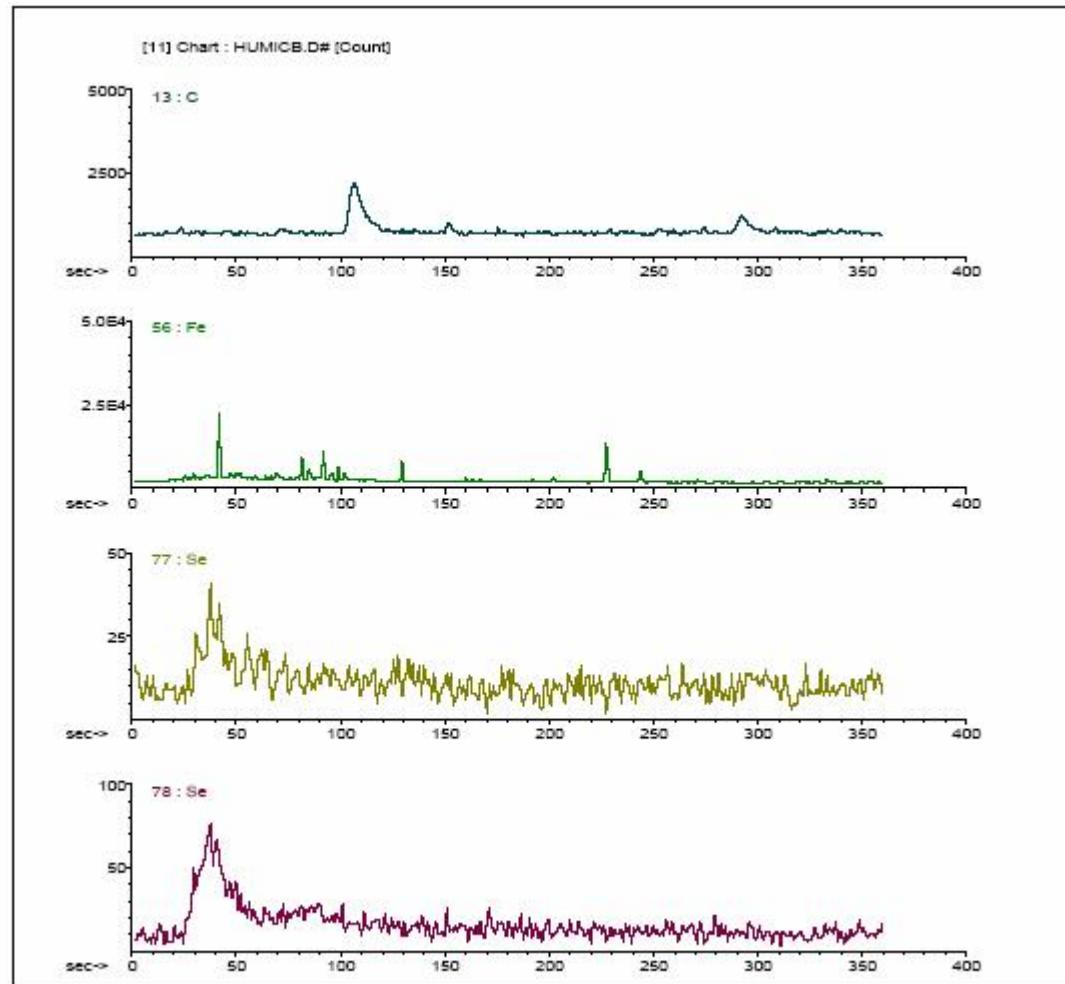
FFF-ICP-MS

example using polystyrene stds



FFF-ICP-MS

example using humic acids equilib. with Se



FFF-ICP-MS

example using shallow GSL

